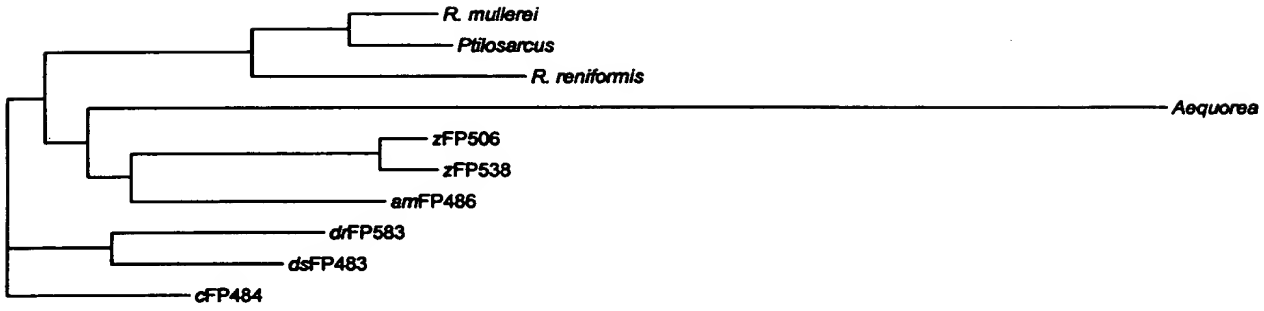

R. mullerei
Ptilosarcus
R. reniformis
Aequorea
zFP506
zFP538
amFP486
drFP583
dsFP483
cFP484

FIGURE 1

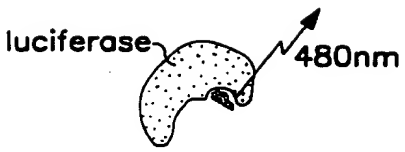


FIGURE 2A

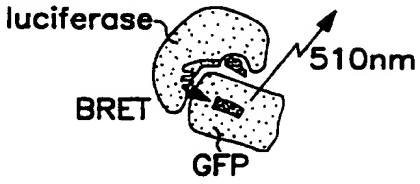


FIGURE 2C

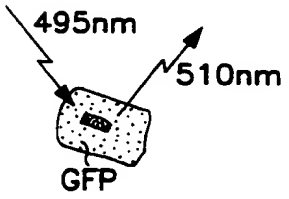


FIGURE 2B

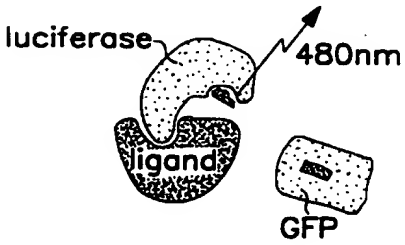
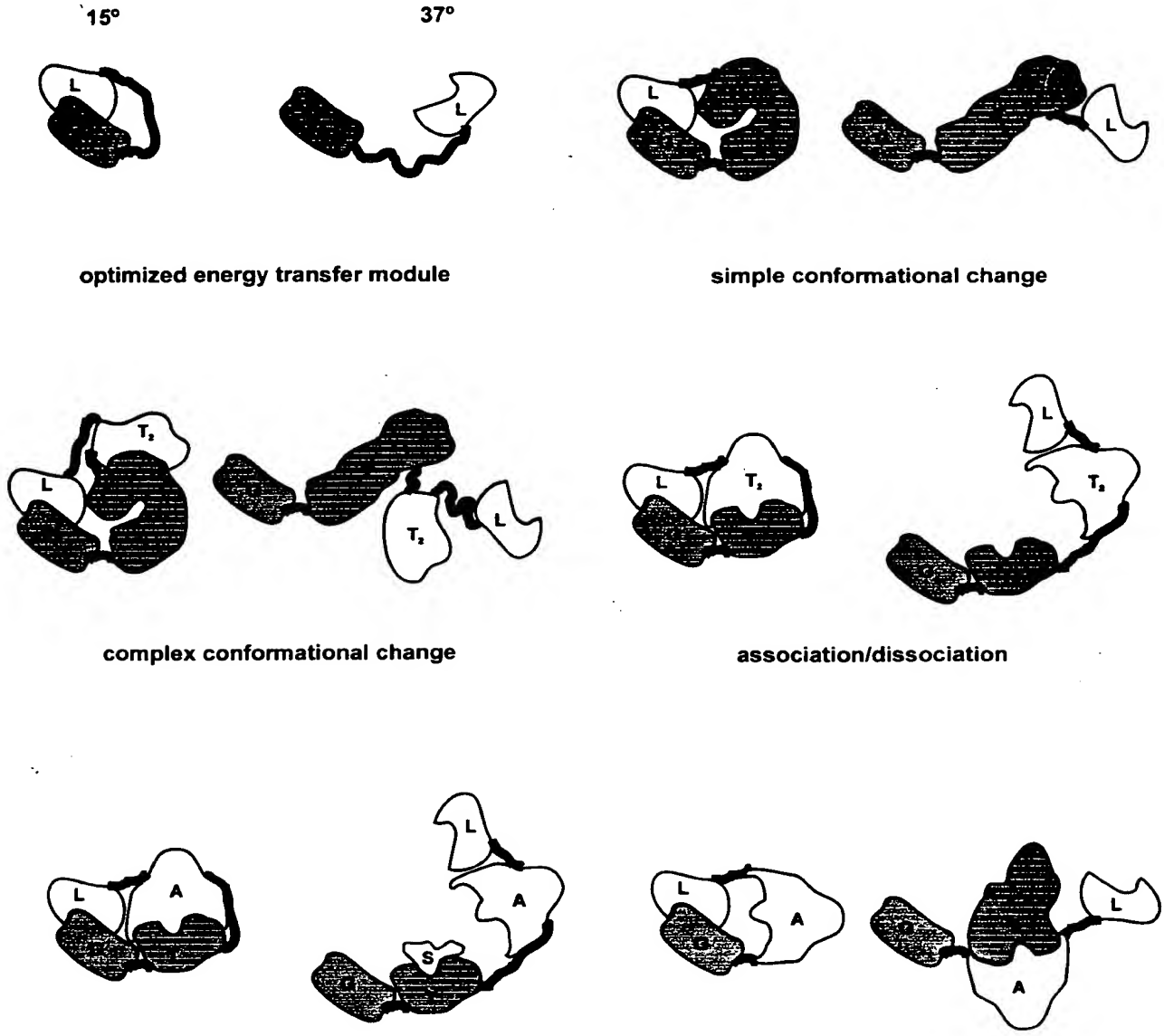


FIGURE 2D

FIGURE 2

BRET Sensor Architecture



BRET sensors are depicted for permissive and non-permissive binding states of the target molecules. Binding may be modulated by varying temperature or ionic strength.

FIGURE 3

Utilization of advantageous GFP surfaces with substituted fluorophores

```
                60          *          80
RM-GFP   :  GAPLPFAFDIVSPAFQYGNRTFTKYPNDIS--  :  83
Pt-GFP   :  GGPLPFAFDIVSIAFQYGNRTFTKYPDDIA--  :  83
RR-GFP   :  GAPLPFAFDIVSVAFSYGNRAYTGYPEEIS--  :  80
cFP484   :  GAPLPFSYDILSNAFQYGNRALTKYPDDIA--  :  83
drFP583  :  GGPLPFAWDILSPQFQYGSKVYVKHPADIP--  :  80
asFP595  :  GGPLPFAFHILSTSCMYGSKTFIKYVSGIP--  :  77
dsFP483  :  GGPLPFGWHILCPQFQYGNKAFVHHPDNIH--  :  80
amFP486  :  GGPLAFSFDILSTVFKYGNRCFTAYPTSMP--  :  82
zFP506   :  GGPLPFAEDILSAAFNYGNRVFTEYPQDIV--  :  80
zFP538   :  GGPLPFSEDILSAGFKYGDRIFTEYPQDIV--  :  80
             ====================
```

FIGURE 4

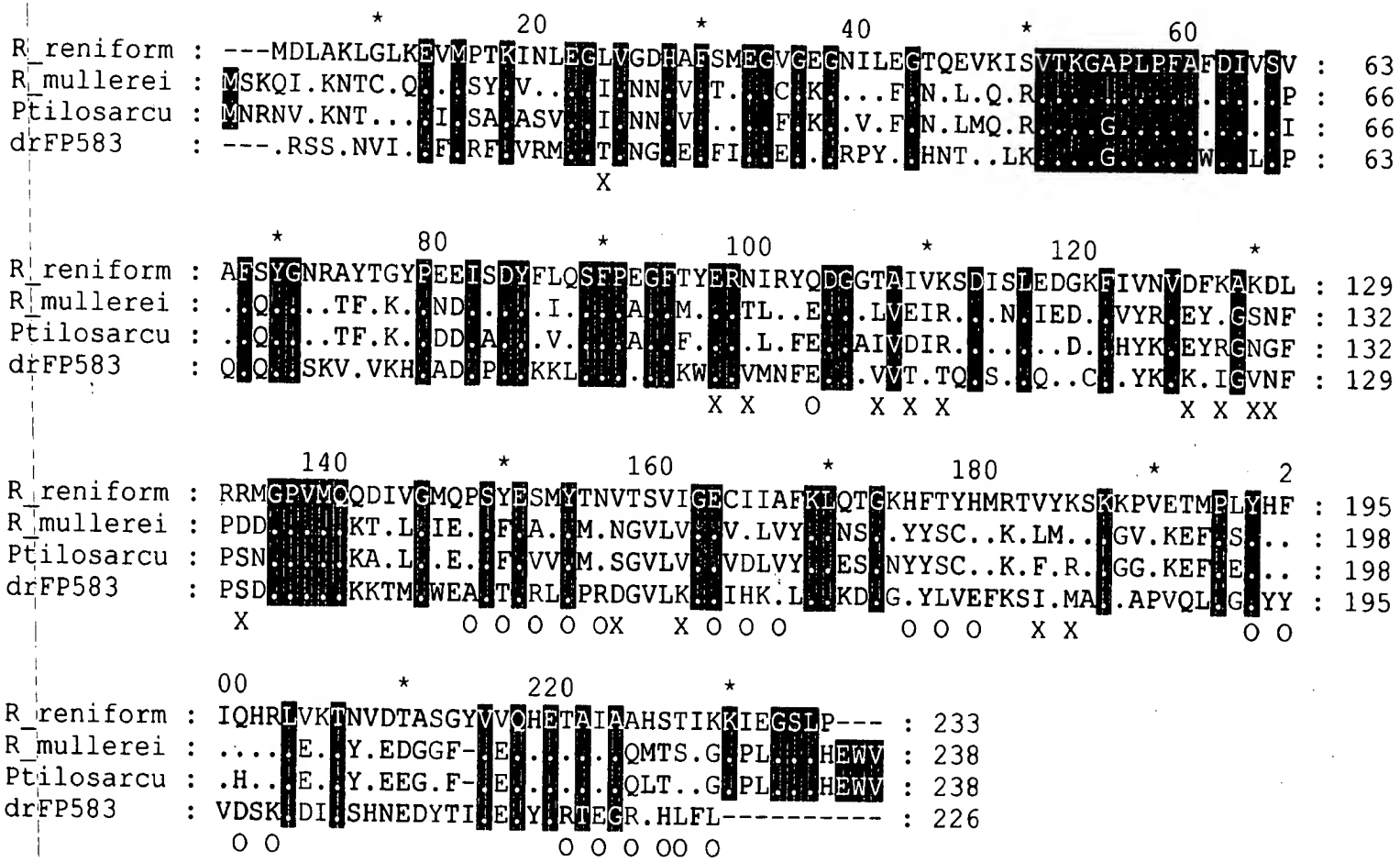


FIGURE 5

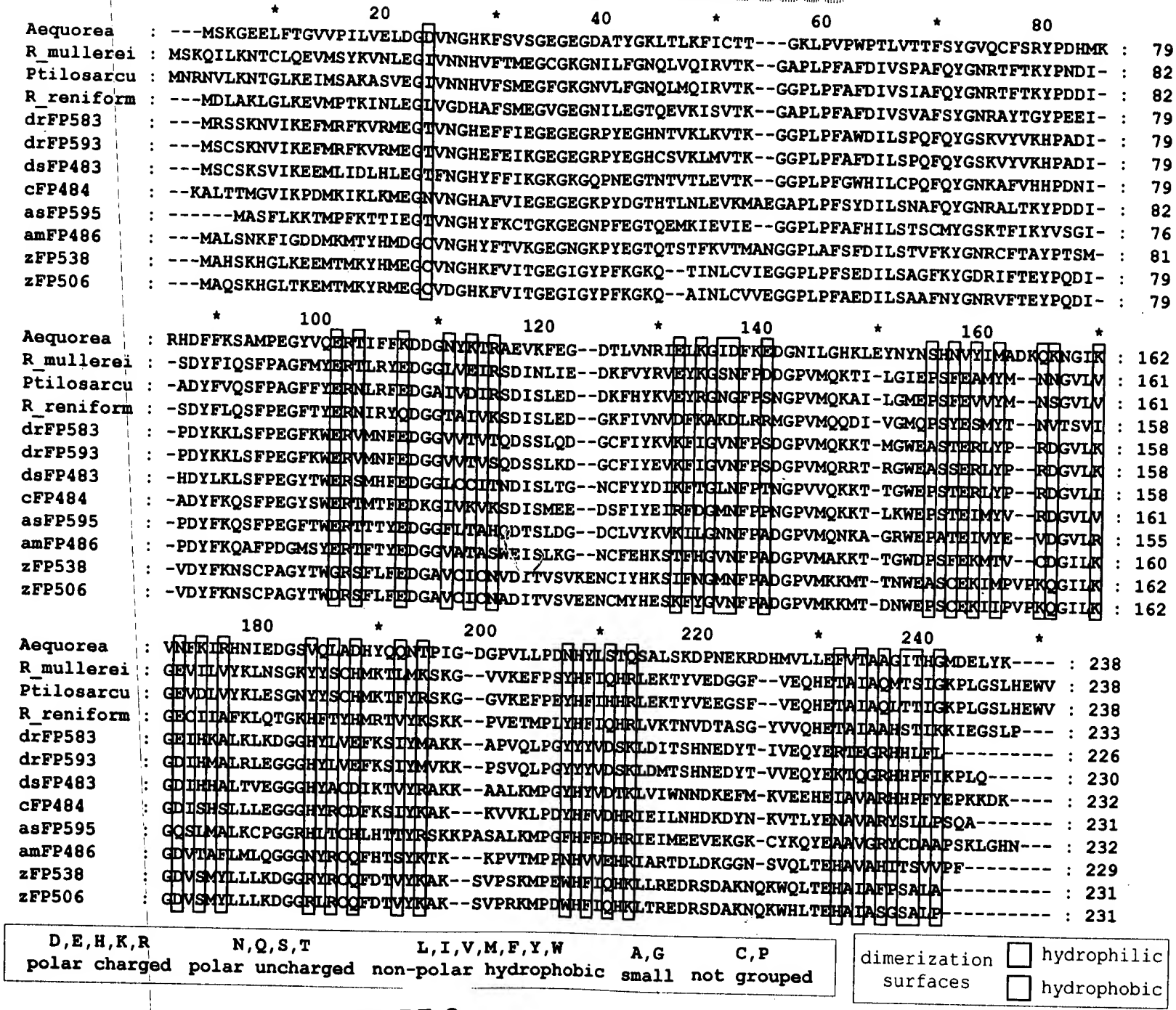


FIGURE 6